

In re Patent Application of
CHAPPAZ

Serial No. 10/006,995

Filed: DECEMBER 3, 2001

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In the Specification:

Please replace the title on page 1 with the following rewritten title:

PROCESS AND DEVICE FOR ESTIMATING THE SUCCESSIVE VALUES OF DIGITAL SYMBOLS, ~~IN PARTICULAR FOR THE EQUALIZATION OF AN INFORMATION TRANSMISSION CHANNEL IN MOBILE TELEPHONY~~

Please replace the paragraphs at page 19, lines 7-17, with the following rewritten paragraphs:

Figure 3 is a block diagram illustrating an equalization block of the device of FIG. 1;

Figure 4 is a block diagram illustrating a decision taking means of the equalization block of FIG. 3;

Figure 5 is a block diagram illustrating a subtractor for calculating the difference between two minimum aggregate metrics in accordance with the invention;

Figure 6 is a block diagram illustrating a second formulation means in accordance with a first embodiment of the invention;

Figure 7 is a block diagram illustrating a second formulation means in accordance with a second embodiment of the invention;

Figure 8 is a flowchart illustrating a mode of implementation of the process according to the present invention;

Figure 9 is a flowchart illustrating a process for calculating the difference between the two minimum aggregate metrics according to the present invention;

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Figure 10 is a flowchart illustrating a process for the first selection means to perform a first selection of the smallest of the M minimum aggregate metrics according to the present invention;

Figure 11 is a flowchart illustrating a process for the first selection means to determine the largest of the M maximum aggregate metrics according to the present invention;

Figure 12 is a flowchart illustrating a process for formulating a unique auxiliary symbol SAX according to a first embodiment of the present invention;

Figure 13 is a flowchart illustrating a process for formulating a set of auxiliary symbols SAX_j according to a first embodiment the present invention;

Figure 14 is a flowchart illustrating a process for formulating a unique auxiliary symbol SAX according to second embodiment of the present invention;

Figure 15 is a flowchart illustrating a process for formulating a set of auxiliary symbols SAX_j according to a second embodiment the present invention;

Figure 16 illustrates, for a particular case, a progression through a trellis allowing implementation of the process according to the invention;

Figure 17 illustrates paths or transitions according to the invention;

Figure 18 illustrates a partitioning of a first group of transitions according to the invention;

Figure 19 illustrates a partitioning of a second group of transitions according to the invention;

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Figure 20 illustrates a partitioning of a third group of transitions according to the invention;

Figure 21 illustrates a partitioning of a fourth group of transitions according to the invention;

Figure 22 illustrates an exemplary case of the process according to the invention;

Figure 23 illustrates an exemplary case of the process according to the invention;

Figure 24 illustrates an exemplary case of the process according to the invention;

Figure 25 illustrates an exemplary case of the process according to the invention;

Please replace the paragraph at page 19, lines 20-22, with the following rewritten paragraphs:

Figure 27 illustrates a decision taking in a reduced trellis according to the present invention;

Figure 28 illustrates a decision taking in a reduced trellis according to the present invention;

Figure 29 illustrates a decision taking in a reduced trellis according to the present invention;

Figure 30 illustrates a decision taking in a reduced trellis according to the present invention; and

Please replace the Abstract with the attached replacement Abstract.